

HAVASU CREEK BASIN

09404050 SPRING VALLEY WASH TRIBUTARY NEAR WILLIAMS, AZ

LOCATION.--Lat 35°34'28", long 112°09'12", in SW¹/₄ sec.2, T.25 N., R.2 E., Coconino County, Hydrologic Unit 15010004, at State Highway 64, 6 mi southeast of Valle, and 22.5 mi north of Williams.

DRAINAGE AREA.--5.00 mi², of which 1.07 mi² is noncontributing.

Annual peak discharges

| Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes | Water year | Date | Annual peak discharge (ft ³ /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1963 | 08-24-63 | 100 | | 1970 | 07-22-70 | 30 | ES |
| 1964 | 07-00-64 | 25 | ES | 1971 | 00-00-71 | 1.0 | LT |
| 1965 | 09-06-65 | 35 | ES | 1972 | 07-17-72 | 8.0 | LT |
| 1966 | 00-00-66 | 20 | ES | 1973 | 00-00-73 | 1.0 | LT |
| 1967 | 00-00-67 | 98 | | 1974 | 00-00-74 | 0 | |
| 1968 | 00-00-68 | 190 | | 1975 | 00-00-75 | 0 | |
| 1969 | 00-00-69 | 1.0 | ES | 1976 | 09-26-76 | 32 | |

Magnitude and probability of instantaneous peak flow based on period of record 1963-76

| Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent | | | | | |
|--|----------|-----------|----------|-----------|------------|
| 2 50% | 5 20% | 10 10% | 25 4% | 50† 2% | 100† 1% |
| 17.7 | 61.2 | 113 | 213 | 317 | 449 |
| Weighted skew | (logs) = | -0.23 | | | |
| Mean | (logs) = | 1.22 | | | |
| Standard dev. | (logs) = | 0.66 | | | |

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour | |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
| | | | | | | 2-year (in) | 50-year (in) |
| 40.5 | 2.4 | 6,750 | 9.2 | 3.0 | 12.2 | 1.5 | 3.3 |

